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WAVELENGTH DIVISION MULTIPLEXING
OPTICAL PROCESSOR

Abstract:

PROBLEM TO BE SOLVED: To improve the transmission characteristic of a wavelength division MULTIPLEXING OPTICAL transmission system.

SOLUTION: A demultiplexer 20 demultiplexes a wavelength division multiplexing optical signal having wavelengths λ_1 to λ_n into signals of respective wavelength λ_1 to λ_n and outputs these signals to channels #1 to #n. Wavelength selection filters 22-1 to 22-n consist of fiber grating parts 24 to 30. The wavelength dispersion of light transmitted through the filters 22-1 to 22-n is respectively compensated by wavelength dispersion compensating fibers 32-1 to 32-n and the compensated signals are multiplexed again by a multiplexer (wavelength multiplexer) 34.

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